

# Introduction to the AZ-400: Designing and Implementing Microsoft DevOps Solutions Exam

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PREPARING AND SUCCEEDING WITH AZ-400



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# Course Overview



**AZ-400 exam structure**

**Key resources available to prepare**

**What to expect**

**Key objectives and skills required**



# AZ-400 Exam Basics



**As expected, the target audience is for DevOps professionals**

**Must have one of two prerequisites**

- Microsoft Certified: Azure Administrator Associate
- Microsoft Certified: Azure Developer Associate

**Then AZ-400 to attain Microsoft Certified: Azure DevOps Engineer Expert**



# AZ-400 Exam Basics



**210 minutes (180 minutes to answer questions)**

**Exact number of questions can vary but around 70**

**700 passing score**

**Valid for 2 years**



The exam is NOT just Azure  
DevOps!  
It includes Azure DevOps,  
but is not JUST Azure  
DevOps!



# Resources to Prepare



Read the Microsoft official exam skills outline

Pluralsight has detailed courses on each element

Microsoft provide free, online learning paths

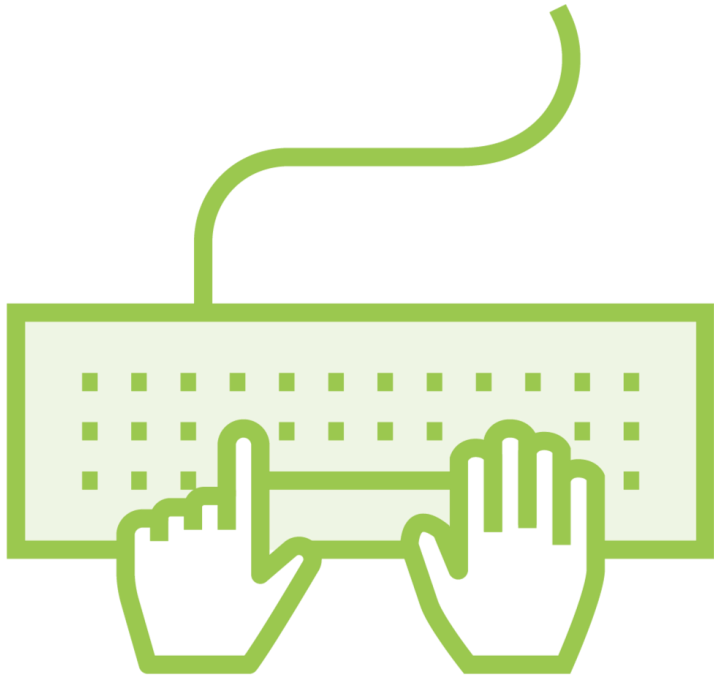
Blogs that link to key Microsoft documentation pages

Find a study group

Take official practice tests



# Getting Hands-on



It's critical to use the technologies

You will gain key knowledge as to actual workings, steps and dependencies on other components

Can use Azure DevOps for free, always!

<https://azure.microsoft.com/free> for a free account with \$200 credit for 30 days

Certain subscriptions like Visual Studio also come with an amount of Azure monthly credit

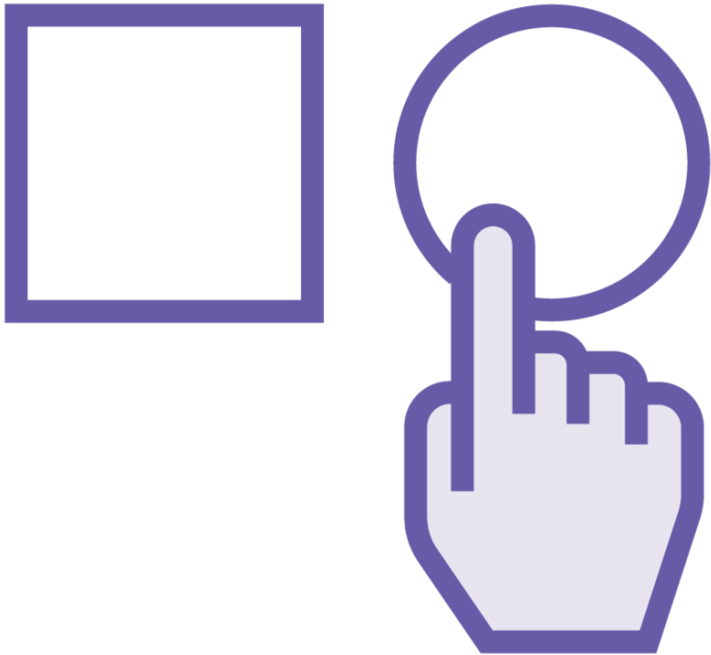


Shut things down when not  
using them!  
Delete them when finished.





# Types of Question



**Pace yourself!**

**Expect a hands-on lab**

**You will see**

- Multiple-choice questions
- Case study-based questions

**Attempt every question!**



# Taking the Exam



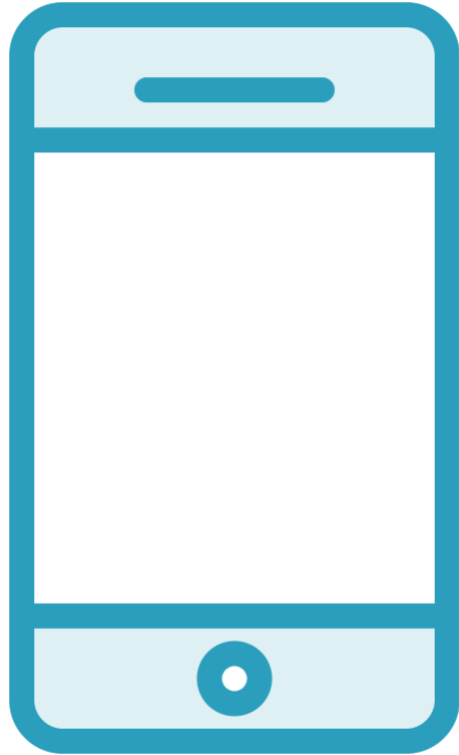
**Exams can be taken in-person at a test facility or online**

**If taking online ensure**

- Have a clean workspace with just computer and single monitor
- Ensure will be no interruptions, people talking
- Need webcam, microphone and speakers
- Government issue ID and phone



# Exam Space



# AZ-400 Functional Groups

Develop an instrumentation strategy (5-10%)

Develop a Site Reliability Engineering (SRE) strategy (5-10%)

Develop a security and compliance plan (10-15%)

Manage source control (10-15%)

Facilitate communication and collaboration (10-15%)

Define and implement continuous integration (20-25%)

Define and implement a continuous delivery and release management strategy (10-15%)



Develop an  
Instrumentation  
Strategy  
(5-10%)

**Design and implement logging**

**Design and implement telemetry**

**Integrate logging and monitoring solutions**



Develop a Site  
Reliability  
Engineering  
(SRE) Strategy  
(5-10%)

**Develop an actionable alerting strategy**

**Design a failure prediction strategy**

**Design and implement a health check**



Develop a  
Security and  
Compliance  
Plan  
(10-15%)

**Design an authentication and authorization strategy**

**Design a sensitive information management strategy**

**Develop security and compliance**

**Design governance enforcement mechanisms**



# Manage Source Control

(10-15%)

**Develop a modern source control strategy**

**Plan and implement branching strategies for the source code**

**Configure repositories**

**Integrate source control with tools**





Facilitate  
Communication  
and  
Collaboration  
(10-15%)

**Communicate deployment and release information  
with business stakeholders**

**Generate DevOps process documentation**

**Automate communication with team members**



Define and  
Implement  
Continuous  
Integration  
(20-25%)

**Design build automation**

**Design a package management strategy**

**Design an application infrastructure management strategy**

**Implement a build strategy**

**Maintain build strategy**

**Design a process for standardizing builds across organization**



Define and  
Implement a  
Continuous  
Delivery and  
Release  
Management  
Strategy  
(10-15%)

**Develop deployment scripts and templates**

**Implement an orchestration automation solution**

**Plan the deployment environment strategy**



# Summary



AZ-400 exam structure

Key resources available to prepare

What to expect

Key objectives and skills required



Don't worry about failing!  
If you don't pass you will  
have learnt your weak spots  
and will pass next time.



Thank you  
and  
good luck!

